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IS 10731 (2000): Presses - Slide Holes for Locating the  
Shanks - Dimensions [PGD 4: Metal Forming Machines]

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भारतीय मानक

प्रेसें — शैंक के अवस्थापन के स्लाइड छिद्र — आयाम  
( पहला पुनरीक्षण )

*Indian Standard*

PRESSES — SLIDE HOLES FOR LOCATING THE  
SHANKS — DIMENSIONS

( *First Revision* )

ICS 25.120.10

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BUREAU OF INDIAN STANDARDS  
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NEW DELHI 110002

## FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Metal-Forming Machines Sectional Committee had been approved by the Basic and Production Engineering Division Council.

This standard was first published in 1983 and has been revised to bring it in line with the present manufacturing practices. The main modifications are as follows:

- a) Nominal diameter 63 has been now designated as 65.
- b) Figure has been suitably modified to incorporate relief groove details.
- c) The title of the standard has been modified for easy understanding.

While preparing this standard, assistance has been derived from DIN 810 : 1986 ‘Machine tools, presses; slide holes of press tools, dimensions’ issued by Deutsches Institut für Normung (DIN).

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 ‘Rules for rounding off numerical values (*revised*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

## *Indian Standard*

# PRESSES — SLIDE HOLES FOR LOCATING THE SHANKS — DIMENSIONS

*(First Revision)*

## **1 SCOPE**

1.1 This standard lays down the dimensions for slide holes for locating the shanks.

1.2 This standard applies to solid as well as split bores.

## **2 REFERENCES**

The following standards contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
1368 : 1987	Dimensions for ends of parts with external ISO metric threads ( <i>third revision</i> )
2102 (Part 1) : 1993	General tolerances: Part 1 Tolerances for linear and angular dimensions without individual tolerances indications ( <i>third revision</i> )
3428 : 1981	Dimensions for relief grooves ( <i>first revision</i> )

<i>IS No.</i>	<i>Title</i>
8711 : 1978	Capacities and dimensions for gap frame open back presses (inclinable and non-inclinable)

## **3 TYPES**

The slide holes for locating the shanks shall be of the following two types :

- a) *Type A* — Without knockout bar
- b) *Type B* — With knockout bar

## **4 DIMENSIONS**

The dimensions for slide holes for locating the shanks shall be given in Table 1.

## **5 CAPACITY**

Capacity of press shall be as specified in IS 8711.

## **6 DESIGNATION**

The slide holes for locating the shanks shall be designated by its name, type and nominal diameter,  $d_1$ .

*Example:*

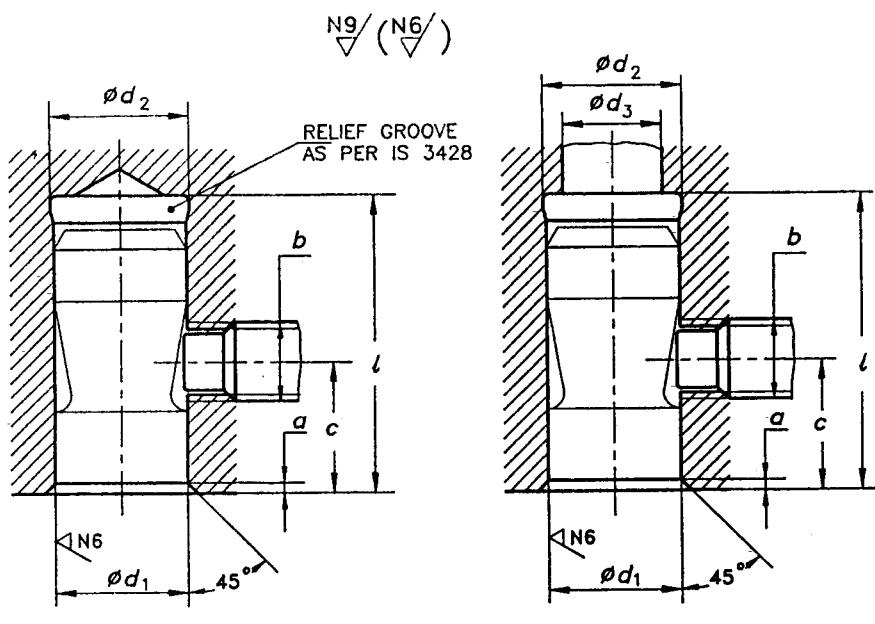
A slide hole with knockout bar ‘Type B’ having diameter  $d_1 = 40$  mm shall be designated by:

Slide Hole IS 10731 – B40

**Table 1 Dimensions for Slide Holes for Locating the Shanks**

(Clause 4.1)

All dimensions in millimetres.



TYPE A WITHOUT KNOCKOUT BAR

TYPE B WITH KNOCKOUT BAR

Type	$d_1$ $H_7$	$d_2$ $\approx$	$d_3$ Min	$l$ Min	$a$	$b$	$c$
A	8	9	—	25	1	M8	12
	10	11	—	28	1	M8	12
	12	13	—	32	1	M8	12
	16	17	—	36	1	M10	20
B	20	21	—	45	1.6	M12	20
	25	26	20	50	1.6	M12	25
	32	33	25	60	1.6	M16	28
	40	41	25	75	2.0	M20	40
	50	51	32	85	2.0	M20	40
	65	66	32	105	2.0	M24	45
	80	81	32	130	2.5	M30	60

## NOTES

1 In the case of large faced rams, fixing bolt holes are optional.

2 Square or hexagonal head dog point bolts with radiused end according to IS 1368 shall be used.

3 Dimensional deviation for untoleranced dimensions shall be of medium class according to IS 2102 (Part 1).

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### Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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